RICARDO LINARES SALDANA

Physician-scientist with a passion for genomics and computational biology

My research has evolved from traditional bench work to big data and computational analysis, with a focus on chromatin organization. My ultimate goal is to make meaningful contributions to our understanding of biology and disease through the lens of genomics.

EDUCATION

2023 **MD, Medicine**
Perelman School of Medicine — Philadelphia, PA

2021 **PhD, Genetics and Epigenetics**
University of Pennsylvania — Philadelphia, PA

2012 **BS, Molecualr and Cellular Biology**
The Johns Hopkins Universitry — Baltimore, MD

RESEARCH EXPERIENCE

2021 **Doctoral Student**
University of Pennsylvania — Philadelphia, PA
- Principal Investigator: Rajan Jain, MD
- Co-Mentor: Jonathan A. Epstein, MD

2015 **Undergraduate Researcher**
The Johns Hopkins University — Baltimore, MD
- Principal Investigator: Haig Kazazian, MD

2015 **Undergraduate Researcher**
University of Pennsylvania — Philadelphia, PA
- Principal Investigator: Michael Marks, PhD

2014 **Postbaccalaureate Research Fellow**
National Institutes of Health — Bethesda, MD
- Principal Investigator: William Gahl, MD, PhD
- Co-Mentor: Camilo Toro, MD

CONTACT

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CODING SKILLS

- Bash
- R
- AWK
- Python

LANGUAGES

English, fluent
Spanish, native

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PUBLICATIONS

2021

BRD4 orchestrates genome folding to promote neural crest differentiation

Nature Genetics

- **Ricardo Linares Saldana**, Wonho Kim, Nikhita A. Bolar, Haoyue Zhang, Bailey A. Koch-Bojalad, Sora Yoon, Parisha P. Shah, Ashley Karnay, Daniel S. Park, Jennifer M. Luppino, Son C. Nguyen, Arun Padmanabhan, Cheryl L. Smith, Andrey Poleshko, Qiaohong Wang, Li Li, Deepak Srivastava, Golnaz Vahedi, Gwang Hyeon Eom, Gerd A. Blobel, Eric F. Joyce, Rajan Jain

2021

Responsiveness to perturbations is a hallmark of transcription factors that maintain cell identity in vitro

Cell Systems

- Ian A. Mellis, Hailey I. Edelstein, Rachel Truitt, Yogesh Goyal, Lauren E. Beck, Orsolya Symmons, Margaret C. Dunagin, **Ricardo Linares Saldana**, Parisha P. Shah, Juan A. Pérez-Bermejo, Arun Padmanabhan, Wenli Yang, Rajan Jain, Arjun Raj

2021

A transcriptional switch governs fibroblast activation in heart disease

Nature

- Michael Alexanian, Pawel F. Przytycki, Rudi Micheletti, Arun Padmanabhan, Lin Ye, Joshua G. Travers, Barbara Gonzalez-Teran, Ana Catarina Silva, Qiming Duan, Sanjeev S. Ranade, Franco Felix, **Ricardo Linares Saldana**, Li Li, Clara Youngna Lee, Nandhini Sadagopan, Angelo Pelonero, Yu Huang, Gaia Andreoletti, Rajan Jain, Timothy A. McKinsey, Michael G. Rosenfeld, Casey A. Gifford, Katherine S. Pollard, Saptarsi M. Haldar, Deepak Srivastava

2021

Pathogenic LMNA variants disrupt cardiac lamina-chromatin interactions and de-repress alternative fate genes

Cell Stem Cell

- Parisha P. Shah, Wenjian Lv, Joshua H. Rhoades, Andrey Poleshko, Deepti Abbey, Matthew A. Caporizzo, **Ricardo Linares Saldana**, Julie G. Heffler, Nazish Sayed, Dilip Thomas, Qiaohong Wang, Liam J. Stanton, Kenneth Bedi, Michael P. Morley, Thomas P. Cappola, Anjali T. Owens, Kenneth B. Margulies, David B. Frank, Joseph C. Wu, Daniel J. Rader, Wenli Yang, Benjamin L. Prosser, Kiran Musunuru, Rajan Jain

2020

BRD4 (Bromodomain-Containing Protein 4) Interacts with GATA4 (GATA Binding Protein 4) to Govern Mitochondrial Homeostasis in Adult Cardiomyocytes

Circulation

- Arun Padmanabhan, Michael Alexanian, **Ricardo Linares Saldana**, Bárbara González Terán, Gaia Andreoletti, Yu Huang, Andrew J. Connolly, Wonho Kim, Austin Hsu, Qiming Duan, Sarah A.B. Winchester, Franco Felix, Juan A. Perez-Bermejo, Qiaohong Wang, Li Li, Parisha P.Shah, Saptarsi M. Haldar, Rajan Jain, Deepak Srivastava

2020

Identification of a molecular basis for the juvenile sleep state

eLife

- Leela Chakravarti Dilley, Milan Szuperak, Naihua N Gong, Charlette E Williams, **Ricardo Linares Saldana**, David S Garbe, Mubarak Hussain Syed, Rajan Jain, Matthew S Kayser

2019

Targeting cardiac fibrosis with engineered T cells

Nature

- Haig Aghajanian, Toru Kimura, Joel G. Rurik, Aidan S. Hancock, Michael S. Leibowitz, Li Li, John Scholler, James Monslow, Albert Lo, Wei Han, Tao Wang, Kenneth Bedi, Michael P. Morley, **Ricardo Linares Saldana**, Nikhita A. Bolar, Kendra McDaid, Charles-Antoine Assenmacher, Cheryl L. Smith, Dagmar Wirth, Carl H. June, Kenneth B. Margulies, Rajan Jain, Ellen Puré, Steven M. Albelda, Jonathan A. Epstein

2019

Early lineage specification defines alveolar epithelial ontogeny in the murine lung

Proceedings of the National Academy of Sciences

- David B. Frank, Ian J. Penkala, Jarod A. Zepp, Aravind Sivakumar, **Ricardo Linares Saldana**, William J. Zacharias, Katharine G. Stolz, Josh Pankin, MinQi Lu, Qiaohong Wang, Apoorva Babu, Li Li, Su Zhou, Michael P. Morley, Rajan Jain, Edward E. Morrisey

2017

Centromere inheritance through the germline

Chromosoma

- Arunika Das, Evan M. Smoak, **Ricardo Linares Saldana**, Michael A. Lampson, Ben E. Black

2016

BLOC-1 Brings Together the Actin and Microtubule Cytoskeletons to Generate Recycling Endosomes

Current Biology

- Cédric Delevoye, Xavier Heiligenstein, Léa Ripoll, Floriane Gilles-Marsens, Megan K. Dennis, **Ricardo Linares Saldana**, Laura Derman, Avanti Gokhale, Etienne Morel, Victor Faundez, Michael S. Marks, Graça Raposo

AWARDS

2022 | 2019

NRSA F31 Grant Award

National Institutes of Health

2021 | 2017

Research Fellowship

The Center for Engineering MechanoBiology at UPenn

2018 | 2017

Research Travel Awards

Society for Advancement of Chicanos/Hispanics and Native Americans in Science, Graduate and Professional Student Assembly, and Biomedical Graduate Studies at UPenn